| Index of | Claims |
|----------|--------|
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| 7 | Application No. | Applicant(s) |  |  |  |  |  |  |  |  |
|---|-----------------|--------------|--|--|--|--|--|--|--|--|
|   | 10/076,423      | BANNO ET AL. |  |  |  |  |  |  |  |  |
| E | Examiner        | Art Unit     |  |  |  |  |  |  |  |  |
| 1 | Helen C. Kwok   | 2856         |  |  |  |  |  |  |  |  |

| Rejected | - | (Through numeral)<br>Cancelled |
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| Allowed  | ÷ | Restricted                     |

| 1        | ı | Non-Elected  |
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| $\lceil$ |   | Interference |

| A | Appeal   |
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| Cla         | aim      | Date         |                 |          |          |                |          | Date Claim Date |           |          |  |          |          |                   | Claim Date |          |                                    |                                    |         |              |   |          |          |                      |                |   |  |                 |          |          |          |
|-------------|----------|--------------|-----------------|----------|----------|----------------|----------|-----------------|-----------|----------|--|----------|----------|-------------------|------------|----------|------------------------------------|------------------------------------|---------|--------------|---|----------|----------|----------------------|----------------|---|--|-----------------|----------|----------|----------|
| Final       | Original | 1/3/05       |                 |          |          |                |          |                 |           |          |  | Final    | Original |                   |            |          |                                    |                                    |         |              |   | Final    | Original |                      |                |   |  |                 |          |          |          |
| 1           | . 1      | Ξ            |                 |          |          |                |          |                 |           | ╛        |  |          | 51       |                   | 7          | $\perp$  |                                    | 士                                  |         |              |   |          | 101      | $\dashv$             | +              |   |  |                 |          |          |          |
| 2           | 2        | =            |                 |          |          |                |          |                 |           |          |  |          | 52       |                   |            |          |                                    | Т                                  |         |              |   |          | 102      |                      |                | П   |  |                 |          |          | $\neg$   |
| 3           | 3        | =            |                 |          |          |                |          |                 |           |          |  |          | 53       |                   |            |          | T                                  | $\neg$                             |         | $\Box$       |   |          | 103      | $\top$               |                | П   |  |                 |          |          |          |
| 4           | 4        | =            |                 |          |          |                |          |                 |           |          |  |          | 54       | П                 |            |          |                                    | $\neg$                             |         | П            |   |          | 104      | $\neg$               |                |   |  |                 |          |          | _        |
| 5           | 5        | Ξ            |                 |          | $\neg$   |                |          |                 |           |          |  |          | 55       |                   |            |          |                                    | $\neg$                             | $\top$  |              |   |          | 105      |                      |                |   |  |                 |          | $\neg$   |          |
| 6           | 6        | =            |                 |          | $\neg$   |                |          |                 |           |          |  |          | 56       |                   |            |          |                                    |                                    | 1       |              |   |          | 106      |                      | $\top$         |   |  |                 |          | $\neg$   |          |
| 7           | 7        | =            |                 |          | $\neg$   |                |          |                 | $\neg$    |          |  |          | 57       |                   |            | $\dashv$ |                                    |                                    | 1       |              | ::: }                                   |          | 107      |                      | +              |   |  |                 |          | 7        |          |
| 8           | 8        | =            |                 |          |          |                |          |                 | $\exists$ |          |  |          | 58       | П                 | $\neg$     |          | T                                  |                                    | $\top$  | $\Box$       |   |          | 108      | _                    | $\forall \neg$ |   |  |                 |          | 7        |          |
| 9           | 9        | =            |                 | $\neg$   | ヿ        |                |          |                 |           |          |  |          | 59       |                   | 一忙         | _        | 1                                  | _                                  | 1       |              |   |          | 109      | $\dashv$             |                | $t^-$   |  |                 |          |          | _        |
|             | 10       | -            |                 |          | $\neg$   |                |          |                 | $\neg$    |          |  |          | 60       |                   | 寸          | $\neg$   | $\top$                             |                                    | $\top$  |              |   |          | 110      | $\dashv$             | 1              | _   |  |                 |          | -        |          |
|             | 11       | -            |                 |          | $\neg$   |                |          | 寸               | $\dashv$  |          |  |          | 61       |                   |            | $\neg$   | $\top$                             | _                                  | +       |              |   |          | 111      | $\neg$               | _              | $\vdash$  |  |                 | $\dashv$ | +        |          |
|             | 12       | $\vdash$     | $\Box$          | $\dashv$ | $\neg$   | $\neg$         |          | $\dashv$        | $\dashv$  | -        |  |          | 62       | Н                 | -          | _        | $\top$                             | $\dashv$                           | $\top$  |              |   |          | 112      | $\dashv$             | +              |   | <del>                                     </del> | -               | $\vdash$ | $\dashv$ | $\dashv$ |
|             | 13       | T            | Н               | $\dashv$ | $\dashv$ | $\neg$         | $\vdash$ | 一               | $\dashv$  | $\neg$   |  |          | 63       |                   | $\dashv$   | +        | +                                  | $\dashv$                           | $\top$  | $\Box$       | :::                                     | -        | 113      | $\dashv$             | $\top$         | T   |  | М               | -        | $\dashv$ | $\dashv$ |
|             | 14       | $\vdash$     | $\Box$          | $\neg$   | 一        | $\neg \dagger$ |          | $\dashv$        | $\neg$    |          |  | $\vdash$ | 64       | $\vdash \vdash$   | -+         | _        | 1                                  | _                                  | +       | $\square$    | ······································· |          | 114      | $\dashv$             | +              | t   | $\vdash$   | Н               | $\vdash$ | $\dashv$ | _        |
|             | 15       | ┪            | $\vdash$        | 寸        | 一        | 一              | $\dashv$ | 寸               | 寸         | _        |  |          | 65       | H                 | $\dashv$   | $\top$   | +-                                 | _                                  | +       | H            |   |          | 115      | $\dashv$             | +              | _   |  | $\vdash$        |          | -+       | $\dashv$ |
|             | 16       | _            | Н               | 寸        | 一        |                | $\dashv$ | 寸               | $\neg$    | $\neg$   |  |          | 66       | $\vdash$          | -t         | $\dashv$ | +                                  | +                                  | +-      | H            |   |          | 116      | +                    | +-             | ╫   | -  |                 |          | $\dashv$ |          |
| $\vdash$    | 17       | _            | Н               | _        | 一        | $\dashv$       |          |                 | $\dashv$  | -        |  |          | 67       | H                 | $\dashv$   | +        | +                                  | $\dashv$                           | +-      |              |   | -        | 117      | $\dashv$             | +              | ╁   |  | -               | $\dashv$ | $\dashv$ | _        |
| $\vdash$    | 18       | $\vdash$     | $\vdash$        | $\dashv$ |          |                | $\dashv$ | _               | $\dashv$  | -        |  |          | 68       |                   | $\dashv$   | +        | +                                  | +                                  | +       | $\vdash$     | • •                                     |          | 118      | $\dashv$             | +              | $\vdash$  | -  | Н               |          | +        |          |
| $\vdash$    | 19       | $\vdash$     | $\vdash$        | _        | -        |                | $\dashv$ | _               | $\dashv$  | -        |  |          | 69       | $\vdash$          |            | +        | +                                  | +                                  | +       |              | :::}                                    |          | 119      |                      |                | ╌   | -  | -               | $\vdash$ | $\dashv$ | $\dashv$ |
| $\vdash$    | 20       | <del> </del> | $\vdash$        | $\dashv$ | $\dashv$ |                | $\dashv$ |                 | $\dashv$  | -        |  |          | 70       | H                 |            |          | +                                  | +                                  | ┿       | -1           | }                                       | $\dashv$ | 120      | +                    | +              | $\vdash$  | H  | Н               | -        |          |          |
| $\vdash$    | 21       | ├            | $\vdash$        | $\dashv$ | $\dashv$ | -              | $\dashv$ | -               | $\dashv$  | $\dashv$ |  |          | 71       | Н                 |            |          | +                                  | +                                  | +       | $\vdash$     |   |          | 121      | +                    | +              | $\vdash$  |  |                 |          |          | _        |
| -           | 22       | ┝            | H               | -        | -        | $\dashv$       | -        | -               | $\dashv$  | -        |  |          | 72       | $\vdash$          |            |          | +-                                 | +                                  |         | -1           |   |          | 122      | -                    | +              | +   |  |                 | $\dashv$ |          | $\dashv$ |
| -           | 23       |              | $\vdash$        |          | $\dashv$ | -              | -        |                 |           |          |  |          | 73       | -                 | $\dashv$   |          | +                                  | +                                  | +       | H            |   |          |          |                      | +              | ₩   |  | Н               | $\dashv$ | -        | _        |
|             | 24       | ⊢            | $\vdash$        | $\dashv$ |          |                | -        | -               | $\dashv$  | -        |  |          |          |                   | +          | +        |                                    | -                                  | +       | $\mathbf{H}$ |   |          | 123      |                      | +-             | ₩   | Н  | Н               | $\dashv$ | $\dashv$ |          |
|             | 25       | _            | $\vdash$        | -        | $\dashv$ | $\dashv$       | $\dashv$ | -               | -         | -        |  |          | 74<br>75 | Н                 |            | +        | +                                  |                                    |         | -            |   |          | 124      | -                    | +              | ┼   | $\vdash$   | Н               | $\dashv$ | +        |          |
|             | 26       | ⊢            | $\vdash$        | -        |          | $\dashv$       | $\dashv$ | $\dashv$        | $\dashv$  | -        |  |          |          |                   |            | +        | +                                  | +                                  | ┼       |              |   |          | 125      | +                    | +              | $\vdash$  |  |                 | $\dashv$ |          |          |
|             | 27       | ⊢            | $\vdash$        | -+       |          |                | -        | $\dashv$        | $\dashv$  | -        |  |          | 76<br>77 |                   | -+         | -        | +-1                                | -                                  |         |              |   |          | 126      |                      | +-             | ├-  | Н  | Ш               | -        |          | _        |
|             | 28       | ⊢            | $\vdash$        | -        | -        | $\dashv$       | $\dashv$ | -               |           |          |  |          |          | $\vdash$          |            |          | +                                  |                                    | +       | H            |   |          | 127      |                      |                | ┼   | $\vdash$   | Н               | $\dashv$ |          | _        |
| <u> </u>    | 29       | ⊢            | $\vdash$        | -+       | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$        |           |          |  |          | 78       | Н                 | $\dashv$   | +        | +                                  |                                    |         | -            |   | -        | 128      |                      |                | ┼   | -  | $\vdash$        | $\dashv$ | -        | _        |
| -           |          | -            | ├─┤             | -        | -        | $\dashv$       |          | $\dashv$        | $\dashv$  |          |  |          | 79       | $\vdash$          |            | +        | +                                  | +                                  |         |              |   |          | 129      |                      |                | ├   | -  | Н               |          | -        | _        |
|             | 30       | $\vdash$     | -               | $\dashv$ |          |                | -        |                 | $\dashv$  | $\dashv$ |  |          | 80       | $\vdash$          | -          |          | +                                  |                                    |         | $\vdash$     |   |          | 130      | +                    |                | -   |  | -               | $\dashv$ |          | _        |
| <u> </u>    | 31<br>32 |              |                 | -        | $\dashv$ | -              | -        | -               | -         |          |  |          | 81       | $\vdash$          | -+         |          |                                    | -                                  | +-      |              |   |          | 131      | -                    | +-             | -   | Н  | _               | -        | 4        | _        |
| -           |          | ├            | -               |          | -        | $\dashv$       | $\dashv$ | -               | $\dashv$  |          |  |          | 82       | $\vdash \vdash$   | -+         | +        | +                                  |                                    | +       | Н            | :::                                     |          | 132      |                      | +              | -   | Н  | Н               |          | -        |          |
| <u></u>     | 33 -     | $\vdash$     | $\vdash \vdash$ |          |          | -              | $\dashv$ | -               | $\dashv$  | _        |  |          | 83       | $\vdash \vdash$   |            | $\dashv$ | $\perp$                            |                                    | +       | $\square$    |   |          | 133      | -                    |                | 1   | Ш  | Н               | $\sqcup$ | $\dashv$ | _        |
|             | 34       | ┝┈           | $\vdash$        |          | 4        |                |          | -               |           |          |  |          | 84       | $\vdash$          | -          | +        | +                                  | -                                  | +       | Щ            |   |          | 134      | $\perp$              | -              | ├   | Щ  |                 | $\dashv$ | 4        |          |
|             | 35       | ├            | $\vdash$        | -        | -        |                | -        | -               |           | _        |  |          | 85       |                   | $\dashv$   |          | +                                  | +                                  | +       |              |   |          | 135      | _                    | +              | ⊢   | Щ  | Н               | $\dashv$ | -        | _        |
| <del></del> | 36       | <u> </u>     | $\vdash$        |          | -        | $\dashv$       |          | -               |           | $\dashv$ |  |          | 86       | $\vdash \vdash$   | $\dashv$   |          | +                                  | +                                  | +-      | $\square$    |   |          | 136      | _                    | +              | $\vdash$  | $\vdash$   | $\vdash \vdash$ | $\dashv$ |          | _        |
| ⊢—          | .37      | <u> </u>     | $\vdash\vdash$  | -        | _        |                | $\dashv$ | _               | _         | _        |  |          | 87       | ${oxed{\square}}$ | $\dashv$   |          | 4-4                                |                                    | 4       | $\square$    |   |          | 137      | +                    |                | ऻ_  |  | $\square$       |          | _        |          |
|             | 38       | <u> </u>     | $\vdash \vdash$ | -        | 4        |                | 4        | _               | -         | _        |  |          | 88       | $\vdash \vdash$   | _          | $\bot$   | $\perp \perp$                      | _                                  | ╄       |              |   |          | 138      | _                    |                | <del> </del> _  | Ш  | Ш               | $\sqcup$ | 4        | _        |
|             | 39_      | <u> </u>     | $\sqcup$        | _        | _        |                | _        | _               | _         |          |  |          | 89       | Щ                 |            |          | $\perp \perp$                      | $\perp$                            | —       |              |   |          | 139      | $\perp$              |                | <del> </del>  | Ш  | Ш               |          | $\perp$  | _        |
| <u></u>     | 40       | _            | $\square$       | _4       | _        | _              | _        | _               | _         | ᆜ        |  |          | 90       | $\sqcup$          | _          |          | $\perp \perp$                      |                                    |         | Ш            |   |          | 140      |                      |                | <b>L</b> _  | Ш  | Ш               |          | $\perp$  |          |
| <u> </u>    | 41       | L            | $\sqcup$        | _        | ļ        | _              | _        | _               | _         |          |  |          | 91       | Ш                 | _          | _ _      | +                                  | _ _                                | 4       | $\square$    |   |          | 141      |                      | ᆚ_             | _   | Щ  |                 |          | _ .      |          |
| <u></u>     | 42       | _            | Ш               | _        | _ļ       | _              | _        | _               | _         | [        |  |          | 92       | Ш                 | _          | _ _      | $\downarrow \downarrow \downarrow$ | $\dashv$                           |         | Ш            |   |          | 142      | $\perp$              | ┷              | <u> </u>  | L.   |                 |          |          |          |
|             | 43       |              | $\sqcup$        |          | _ļ       | _              | _        | _               | _         | [        |  |          | 93       | Ш                 | $\dashv$   |          | $\downarrow \downarrow \downarrow$ | $\perp$                            |         |              |   |          | 143      | $\perp$              |                | $oxed{oxed}$  | Ш  | Ш               |          |          |          |
| L           | 44       |              | $\sqcup$        | 4        | _        | _              | _        |                 | _         |          |  |          | 94       | Ш                 | _          |          | $\bot$                             |                                    |         | Щ            | :::                                     |          | 144      |                      |                | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |  |                 |          | $\Box$   |          |
| L           | 45       | Ш            | Ш               |          | ļ        | _              |          |                 | $\dashv$  |          |  |          | 95       | Ш                 | _          | ᆚ        | $\perp \perp$                      | $\perp \! \! \! \! \! \! \! \perp$ | 1       |              |   |          | 145      | $\perp$              | $\bot$         | <u> </u>  |  |                 |          |          |          |
| <u> </u>    | 46       | Щ.           |                 | _        |          | _              | _        | _               | $\perp$   |          |  |          | 96       | Ш                 | _          | _ _      | $\perp \perp$                      | $\perp$                            | $\perp$ |              |   |          | 146      | $\perp$              |                |   |  |                 |          |          |          |
| <u></u>     | 47       | L.           |                 |          | $\perp$  | $\sqcup$       | <b>⅃</b> |                 |           | ╝        |  |          | 97       | Ш                 | _          |          | $\perp$                            | 1                                  |         | Ш            | [                                       |          | 147      |                      |                | L   | Ш  |                 |          |          | ╝        |
| <u></u>     | 48       | Щ            | Ш               | _        | _        | _              | _        |                 |           |          |  |          | 98       | Ш                 | _          | _ _      | 4_1                                | $\bot$                             | $\perp$ | Ш            |   |          | 148      | $\perp \!\!\! \perp$ |                | <u> </u>  | Ш  |                 | [        |          |          |
| <u></u>     | 49       |              |                 | _        | _        | _              | _        |                 | _         |          |  |          | 99       | Ш                 | _          | _ _      | $\bot$                             |                                    |         | Ш            | :::[                                    |          | 149      |                      |                | <u> </u>  | Ш  |                 |          |          | ╝        |
| L           | 50       |              |                 |          |          |                | $\perp$  |                 |           |          |  |          | 100      |                   |            |          |                                    | _                                  |         | Ш            | [                                       |          | 150      | - 1                  |                | 1   |  |                 |          | Т        |          |